

FIG. 1 (Background Art)

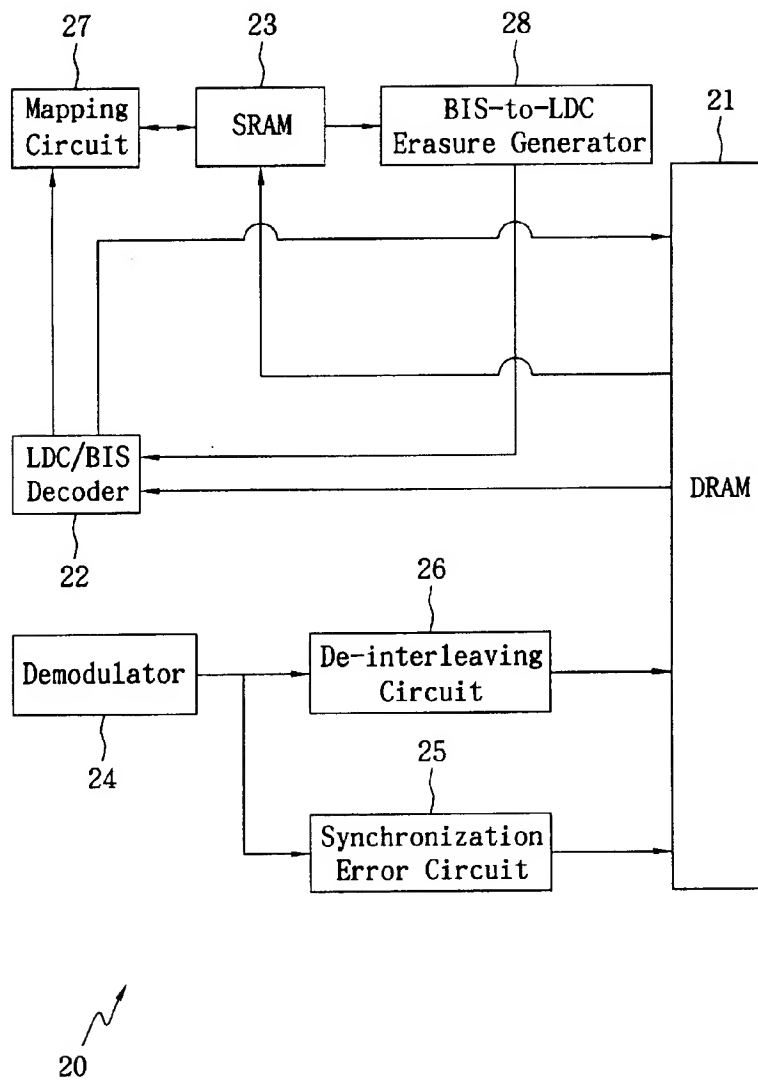


FIG. 2(a)

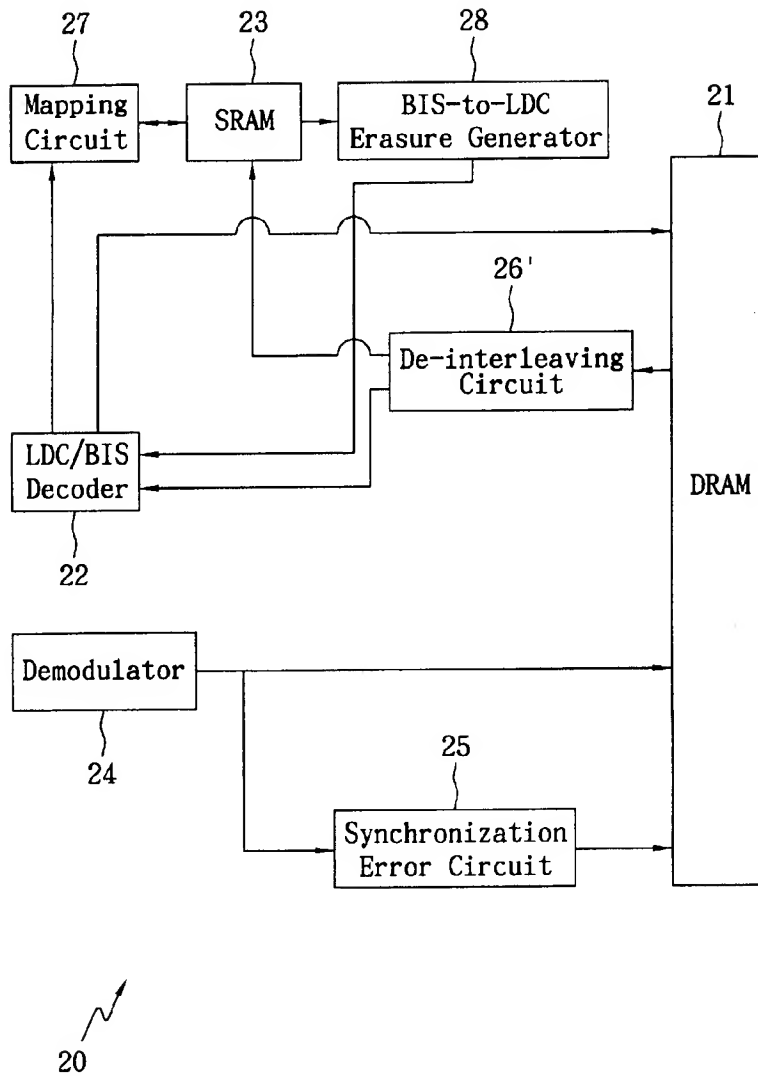


FIG. 2(b)

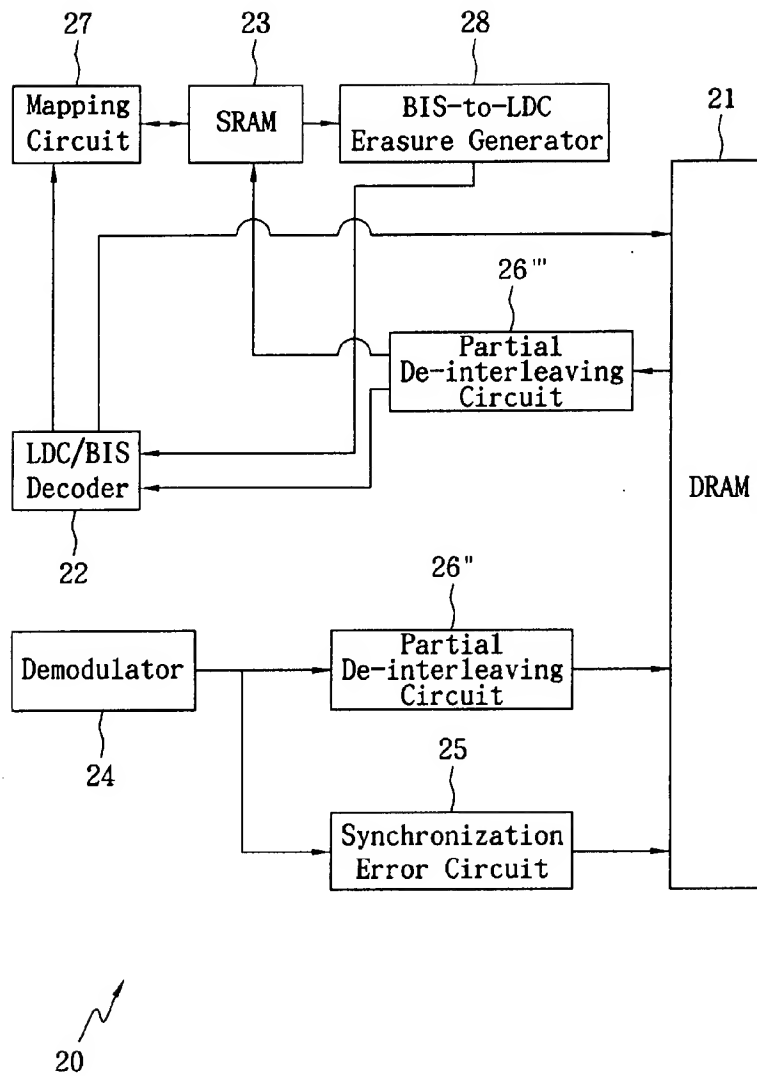


FIG. 2(c)

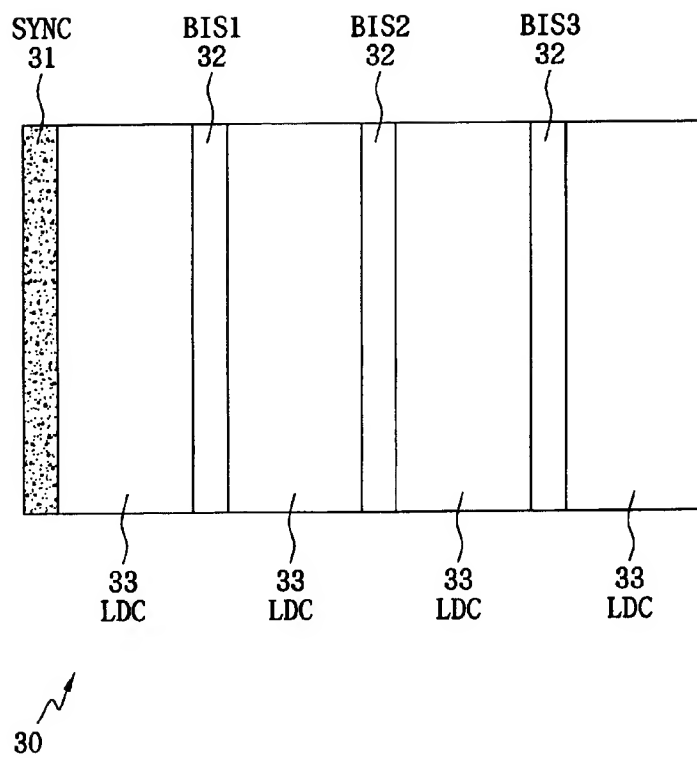


FIG. 3

|         |           |      |      |      |            |      |      |      |
|---------|-----------|------|------|------|------------|------|------|------|
|         | First Row |      |      |      | Second Row |      |      |      |
|         | SYNC      | BIS1 | BIS2 | BIS3 | SYNC       | BIS1 | BIS2 | BIS3 |
| Address | 0         | 1    | 2    | 3    | 4          | 5    | 6    | 7    |
| Data    | S0        | 0    | 0    | 0    | S1         | 0    | 0    | 0    |

FIG. 4

|         |           |      |      |      |            |      |      |      |
|---------|-----------|------|------|------|------------|------|------|------|
|         | First Row |      |      |      | Second Row |      |      |      |
|         | SYNC      | BIS1 | BIS2 | BIS3 | SYNC       | BIS1 | BIS2 | BIS3 |
| Address | 0         | 1    | 2    | 3    | 4          | 5    | 6    | 7    |
| Data    | 0         | 1    | 0    | 1    | 1          | 0    | 1    | 0    |

FIG. 5(a)

Byte k

|      |       |         |         |         |         |         |         |         |
|------|-------|---------|---------|---------|---------|---------|---------|---------|
|      | Row n | Row n+1 | Row n+2 | Row n+3 | Row n+4 | Row n+5 | Row n+6 | Row n+7 |
|      | SYNC  | SYNC    | SYNC    | SYNC    | SYNC    | SYNC    | SYNC    | SYNC    |
| Bit  | 0     | 1       | 2       | 3       | 4       | 5       | 6       | 7       |
| Data |       |         |         |         |         |         |         |         |

Byte k+1

|      |       |         |         |         |         |         |         |         |
|------|-------|---------|---------|---------|---------|---------|---------|---------|
|      | Row n | Row n+1 | Row n+2 | Row n+3 | Row n+4 | Row n+5 | Row n+6 | Row n+7 |
|      | BIS1  | BIS1    | BIS1    | BIS1    | BIS1    | BIS1    | BIS1    | BIS1    |
| Bit  | 0     | 1       | 2       | 3       | 4       | 5       | 6       | 7       |
| Data |       |         |         |         |         |         |         |         |

Byte k+2

|      |       |         |         |         |         |         |         |         |
|------|-------|---------|---------|---------|---------|---------|---------|---------|
|      | Row n | Row n+1 | Row n+2 | Row n+3 | Row n+4 | Row n+5 | Row n+6 | Row n+7 |
|      | BIS2  | BIS2    | BIS2    | BIS2    | BIS2    | BIS2    | BIS2    | BIS2    |
| Bit  | 0     | 1       | 2       | 3       | 4       | 5       | 6       | 7       |
| Data |       |         |         |         |         |         |         |         |

Byte k+3

|      |       |         |         |         |         |         |         |         |
|------|-------|---------|---------|---------|---------|---------|---------|---------|
|      | Row n | Row n+1 | Row n+2 | Row n+3 | Row n+4 | Row n+5 | Row n+6 | Row n+7 |
|      | BIS3  | BIS3    | BIS3    | BIS3    | BIS3    | BIS3    | BIS3    | BIS3    |
| Bit  | 0     | 1       | 2       | 3       | 4       | 5       | 6       | 7       |
| Data |       |         |         |         |         |         |         |         |

FIG. 5(b)



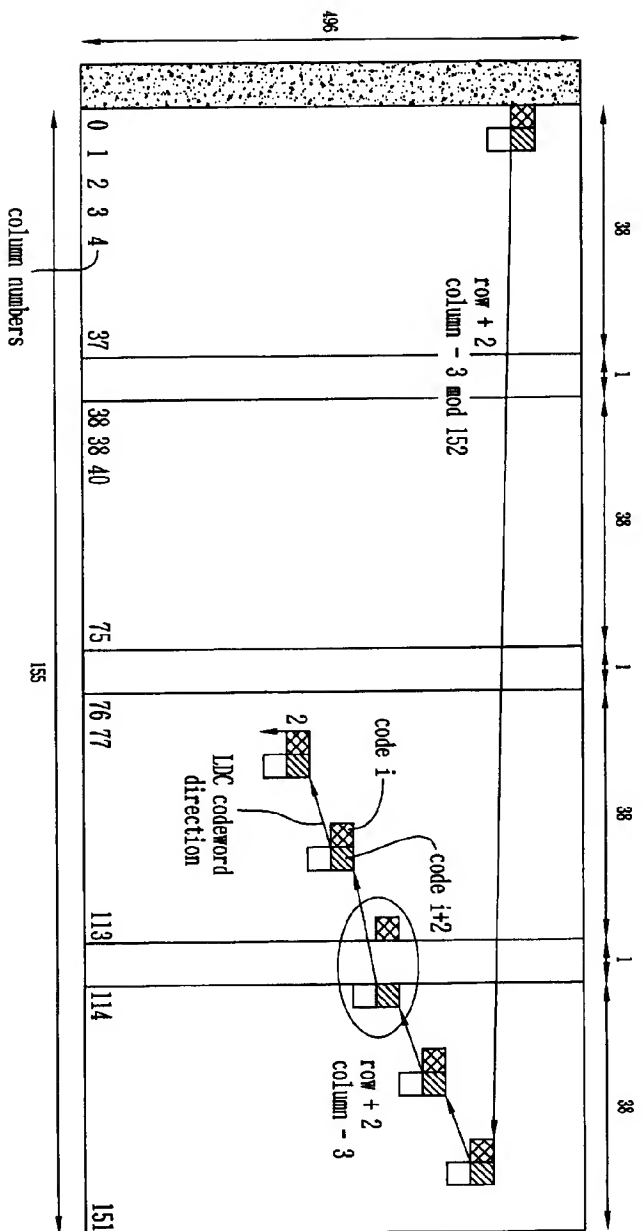


FIG. 5(c)

|   |   |                  |             |   |              |             |   |              |
|---|---|------------------|-------------|---|--------------|-------------|---|--------------|
|   |   | ← 19 codewords → |             |   |              |             |   |              |
| ↑ |   | $d_{0,A}$        | $d_{216,A}$ | : | $d_{1944,A}$ | $d_{108,B}$ | : | $d_{1836,B}$ |
|   |   | $d_{1,A}$        | $d_{217,A}$ | : | $d_{1945,A}$ | $d_{109,B}$ | : | $d_{1837,B}$ |
|   |   | $d_{2,A}$        | :           | : | :            | :           | : | :            |
|   |   | $d_{3,A}$        | :           | : | :            | :           | : | :            |
|   |   | ↓                | ↓           | : | ↓            | ↓           | : | ↓            |
|   |   | :                | :           | : | $d_{2047,A}$ | :           | : | :            |
|   |   | :                | :           | : | $e_{2048,A}$ | :           | : | :            |
|   |   | :                | :           | : | :            | :           | : | :            |
|   |   | :                | :           | : | $e_{2051,A}$ | :           | : | :            |
|   |   | :                | :           | : | $d_{0,B}$    | :           | : | :            |
|   |   | :                | :           | : | $d_{1,B}$    | :           | : | :            |
|   |   | ↓                | ↓           | : | ↓            | ↓           | : | ↓            |
|   |   | :                | :           | : | :            | :           | : | $d_{2047,B}$ |
|   |   | :                | :           | : | :            | :           | : | $e_{2048,B}$ |
|   |   | :                | :           | : | $d_{106,B}$  | :           | : | :            |
|   | ↓ | $d_{215,A}$      | $d_{431,A}$ | : | $d_{107,B}$  | $d_{323,B}$ | : | $e_{2051,B}$ |

FIG. 5(d)







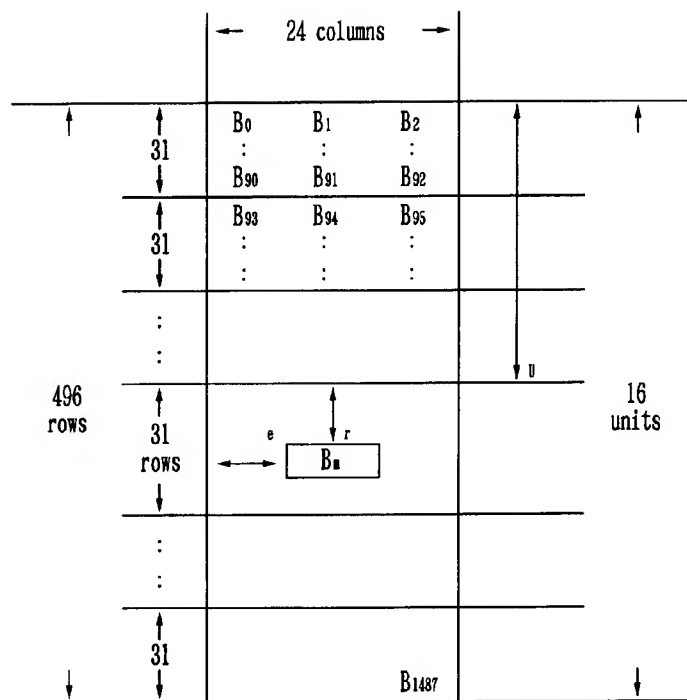


FIG. 6(d)

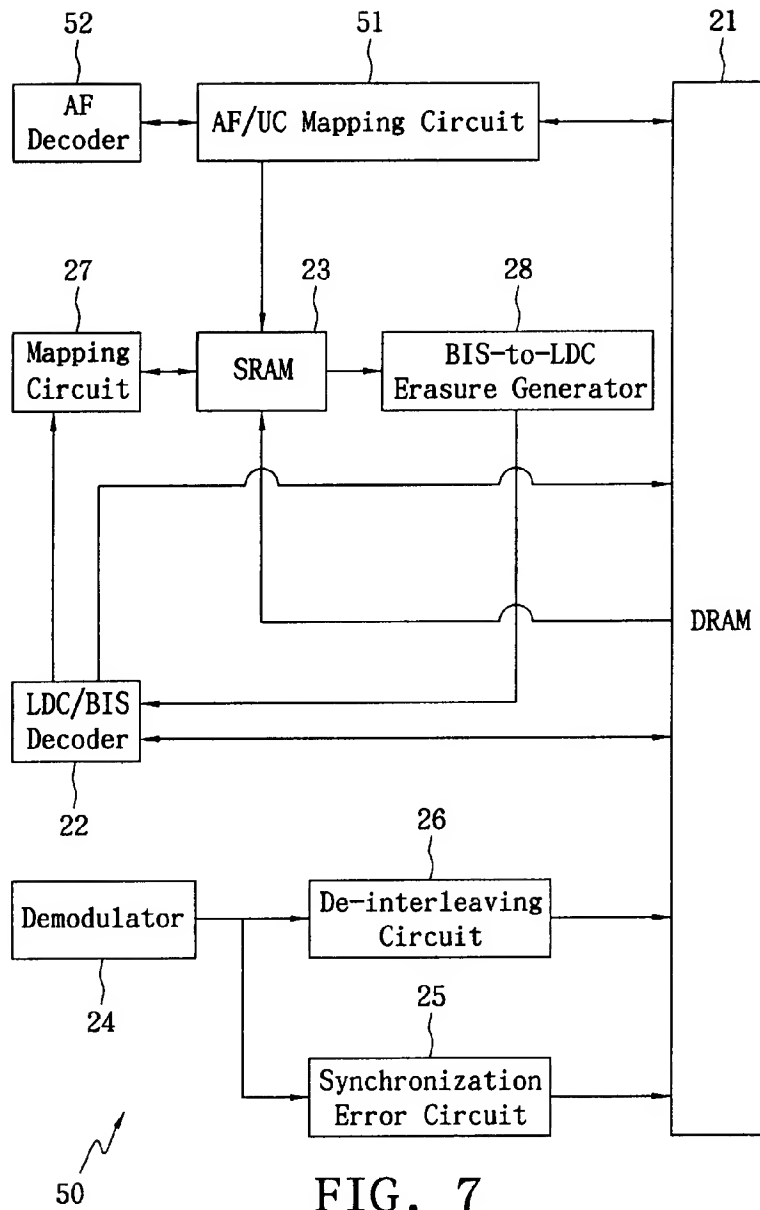


FIG. 7

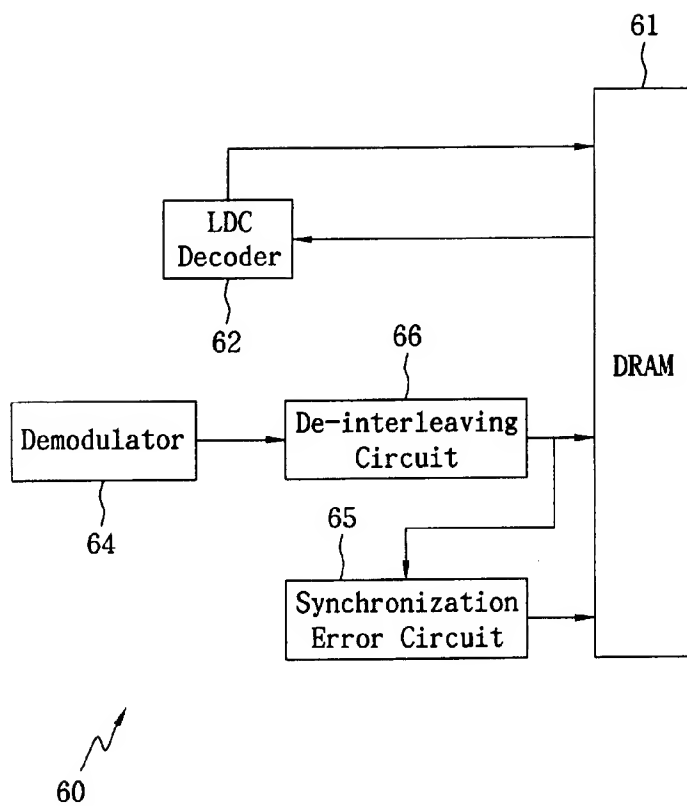


FIG. 8